### Rec'd PCT/PTO-17 MAR 2006-

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below Priority date (day/month/year) International filing date (day/month/year) International application No. 20.06.2003 18.06.2004 PCT/US2004/019587 International Patent Classification (IPC) or both national classification and IPC B22F3/15, B22F3/12, B22F7/00 Applicant CRS HOLDINGS, INC. This opinion contains indications relating to the following items: 1. ☑ Box No. I Basis of the opinion ☑ Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited Certain defects in the international application ☐ Box No. VII Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1b/s(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

PATENT COOPERATION TREAT

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#### PATENT COOPERATION TREATY

## **PCT**

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 0008-CA323WO	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/US2004/019587	International filing date (day/month/year) 18 June 2004 (18.06.2004)	Priority date (day/month/year) 20 June 2003 (20.06.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant CRS HOLDINGS, INC.					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	This report contains indications relating to the following items:				
	Box No. I Basis of the report				
	Box No. II Priority				
	Box No. III  Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV Lack of unity of invention				
Box No. V  Reasoned statement under Article 35(2) with regard to novelty, invent applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited  Certain defects in the international application  Certain observations on the international application			
	Box No. VII				
	Box No. VIII				
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 03 January 2006 (03.01.2006)		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland			Authorized officer  Beate Giffo-Schmitt		
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Form PCT/IB/373 (January 2004)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/019587

_	Box	No. I	Basis of the opinion
١.	With the la	rega angua	rd to the <b>language</b> , this opinion has been established on the basis of the international application in age in which it was field, unless otherwise indicated under this item.
	1	angu	opinion has been established on the basis of a translation from the original language into the following age , which is the language of a translation furnished for the purposes of international search er Rules 12.3 and 23.1(b)).
2.	With nece	rega ssan	rd to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and y to the claimed invention, this opinion has been established on the basis of:
	a. tyj	pe of	material:
		l a	sequence listing
		l ta	ble(s) related to the sequence listing
	b. fo	rmat	of material:
		] in	written format
		] in	computer readable form
	c. tir	ne of	filing/furnishing:
		] c	ontained in the international application as filed.
		] fi	led together with the international application in computer readable form.
		] ft	urnished subsequently to this Authority for the purposes of search.
3	. 🗆	has copi	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional es is identical to that in the application as filed or does not go beyond the application as filed, as ropriate, were furnished.
4	. Add	lition	al comments:

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/019587

	Box	No. II	Priority			
1.	.   The following document has not been furnished:					
	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).					
			translation of the ea	rlier appli	cation whos	e priority has been claimed (Rule 43bis.1 and 66.7(b)).
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.					
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.					
3.	Add	ditional o	observations, if neces	ssary:		
	Bo	x No. V	Reasoned staten	nent und	er Rule 43 <i>b</i> explanations	is.1(a)(I) with regard to novelty, inventive step or supporting such statement
_			аррпоавшу, опапе	110 4114 6		
1.	. Sta	tement				
	No	veity (N	)	Yes:	Claims	
				No:	Claims	1,6
	lnv	entive s	tep (IS)	Yes:	Claims	
				No:	Claims	2-5, 7-10
		1	lianhilite (IA)	Voor	Claims	1-10
	inc	iustriai a	applicability (IA)	Yes: No:	Claims	1-10
2	. Cit	tations a	and explanations			
	se	e separ	ate sheet			

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/US2004/019587

- 1. Claim 1 is unclear because the wording "a desired amount of porosity" does not specify which porosity is actually intended and can even comprise 100% dense, i.e. zero porosity materials (cf. page 6, line 5-7). The same objection applies to claim 6.
- 2. The unclear wording "a desired amount of porosity" has no limiting effect and cannot be used to distinguish the claimed invention from the prior art. Therefore the subject-matter of claim 1 lacks novelty in view of a conventional ROC process as disclosed for instance in D1 Fig. 6 or in D2 (abstract and col. 6 line 38-40).

The same objection applies also to the subject-matter of claim 6 (cf. D1, "Processing of bimetallic parts").

- 3. The dependent claims would not add anything rendering the claimed subjectmatter novel and inventive.
- 4. An amended claim 1 specifying that the process is directed to the production of tools for injection moulding having a porosity sufficient to vent air through the walls (cf. page 4, line 5-6) would meet the objections above while not adding subject-matter which was not originally disclosed.